SOUTH CAROLINA PEDIATRIC PREHOSPITAL PROTOCOLS

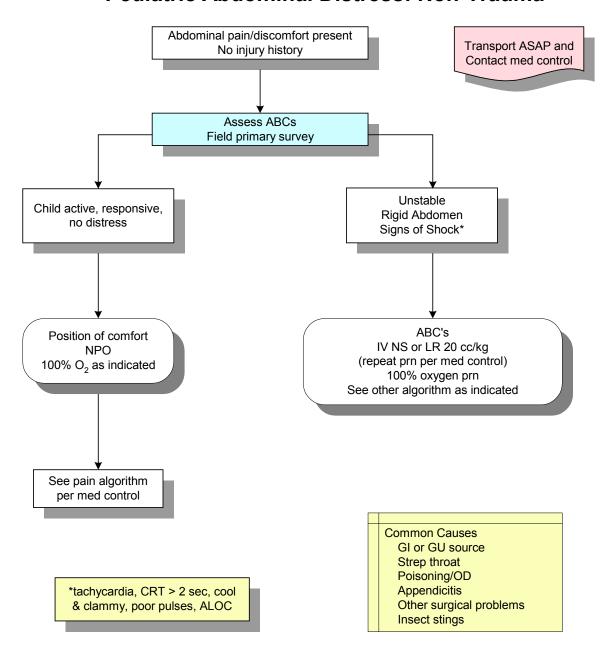


Developed by the Emergency Medical Services for Children Pediatric Protocols/Equipment Subcommittee

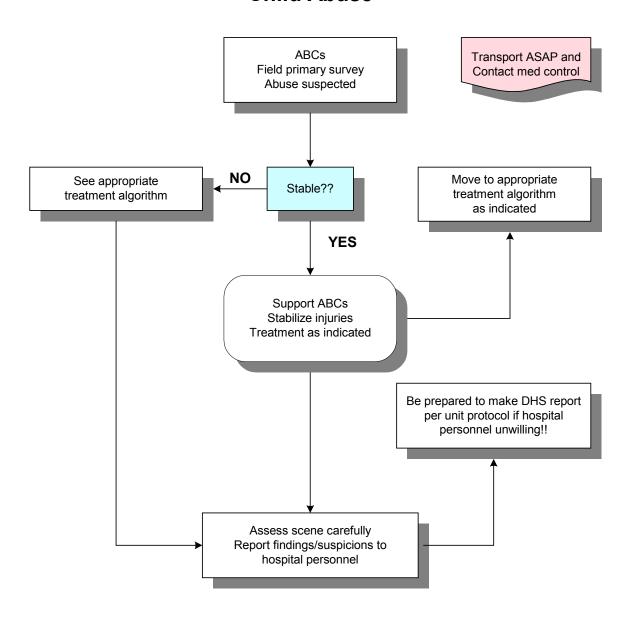
Pediatric Field Primary Survey

1. Establish level of responsiveness. Playfulness Oconsolability Distractability Distractability Distractability Distress Color 2. Evaluate airway and protective airway reflexes. [2] 3. Basic airway/spinal immobilization prn. [3,4] 4. Oxygen prn. [5] 5. Assist ventilation prn. [6,7] 6. Stop hemorrhage. Evaluate and support circulation. [8,9] 7. Do environmental assessment, including consideration of intentional injury. 8. Determine appropriate treatment protocol. 8. Determine appropriate treatment protocol. 9. Use chest rise as indicator of adequate ventilation. If inadequate, consider: Propositioning the airway Foreign body in the airway Foreign for playing of airway obstruction and respiratory distress, including: Position of paradycardia Pradycardia Pr	Field Primary Survey	Special Considerations
infant, 1 – 1½" child.	1. Establish level of responsiveness. Playfulness Consolability Distractability Interaction Position Anxiety Distress Eye Contact Color 2. Evaluate airway and protective airway reflexes. [2] 3. Basic airway/spinal immobilization prn. [3,4] 4. Oxygen prn. [5] 5. Assist ventilation prn. [6,7] 6. Stop hemorrhage. Evaluate and support circulation. [8,9] 7. Do environmental assessment, including consideration of intentional injury.	[1] Determine scene safety. [2] Identify signs of airway obstruction and respiratory distress, including:

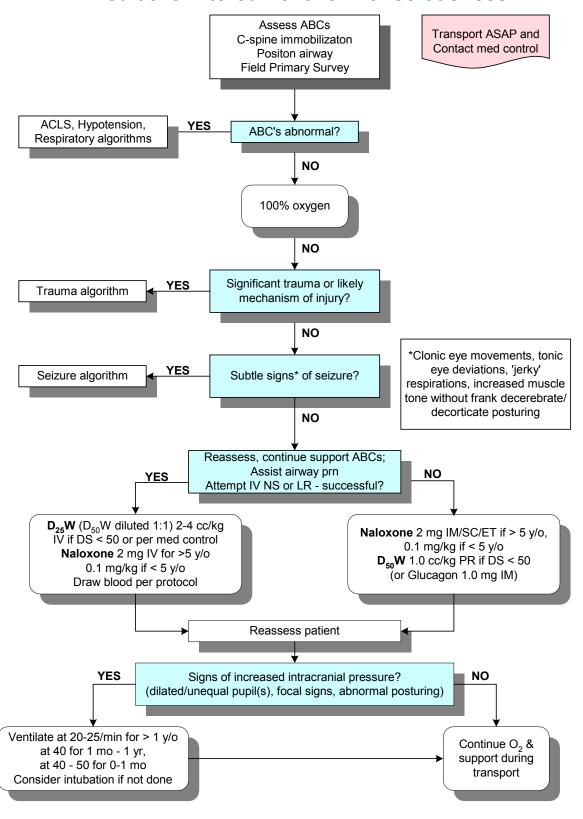
Pediatric Abdominal Distress: Non-Trauma



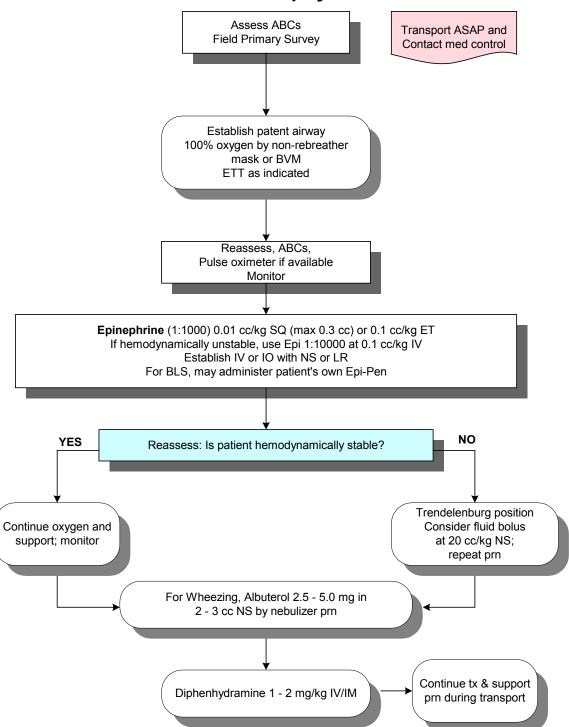
Child Abuse



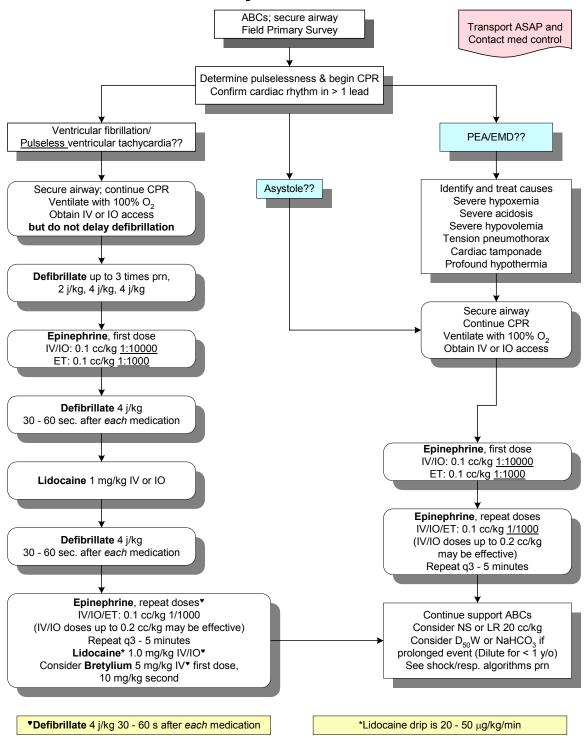
Pediatric Altered Level of Consciousness



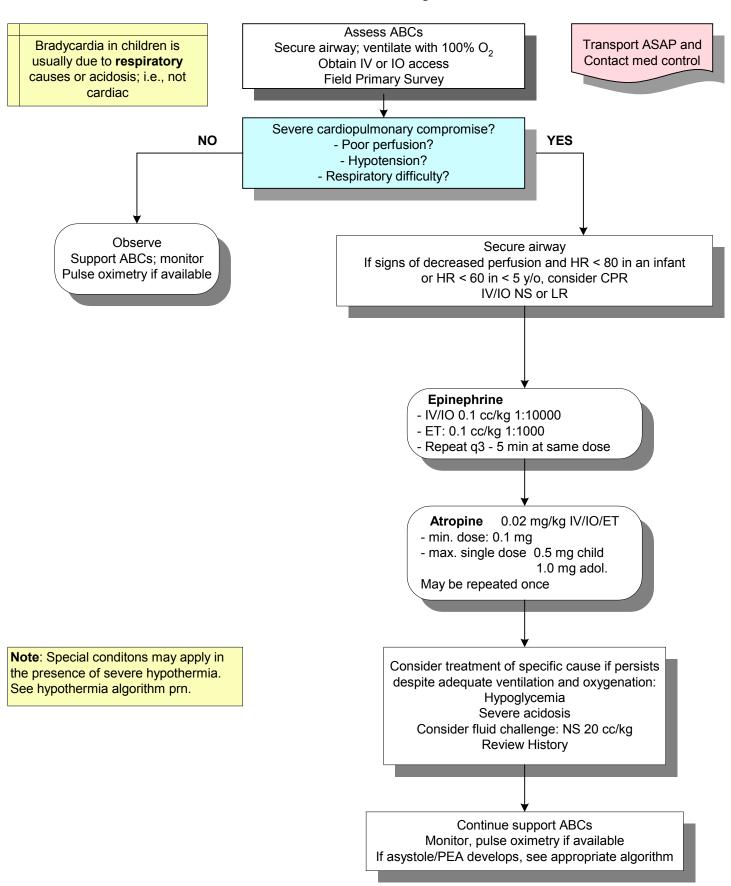
Pediatric Anaphylaxis



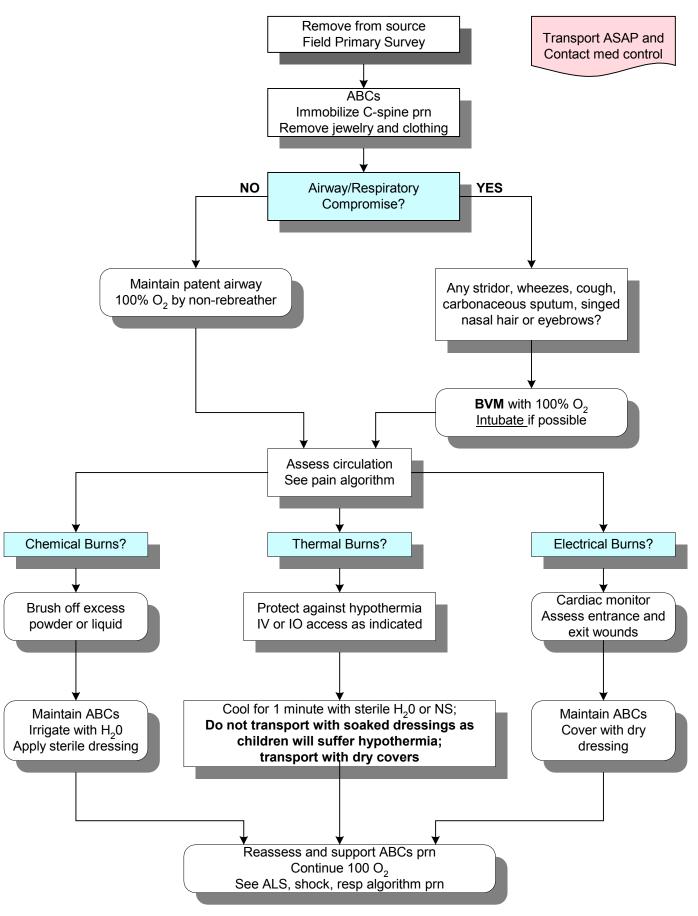
Pediatric Asystole/Pulseless Arrest



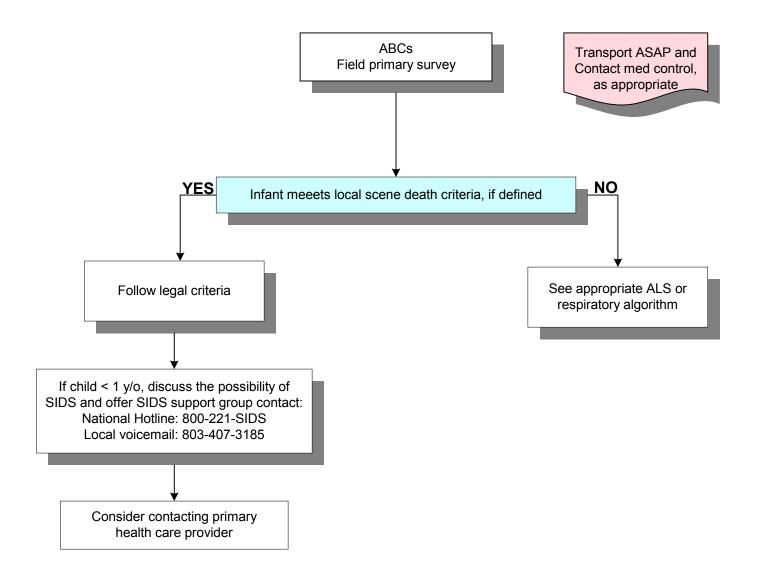
Pediatric Bradycardia



Pediatric Burns



Infant/Child Death



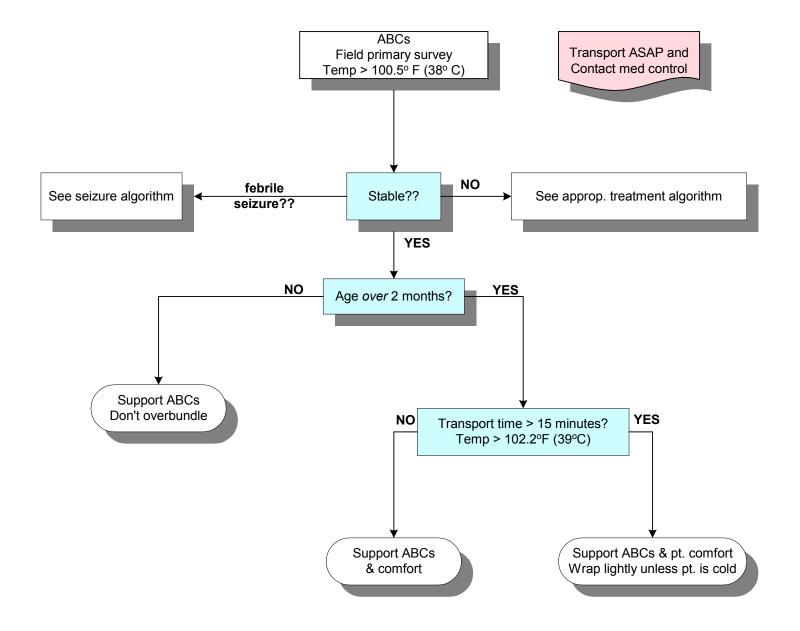
Assessment of the scene is very important. Child abuse must be considered as a possible etiology.

Guilt and blame are significant components in a family with an unexplained child death.

Obtain information as discretely as possible and provide support to family members present, regardless of suspicions.

Sudden unexplained death during sleep in children < 1 y/o may be SIDS.

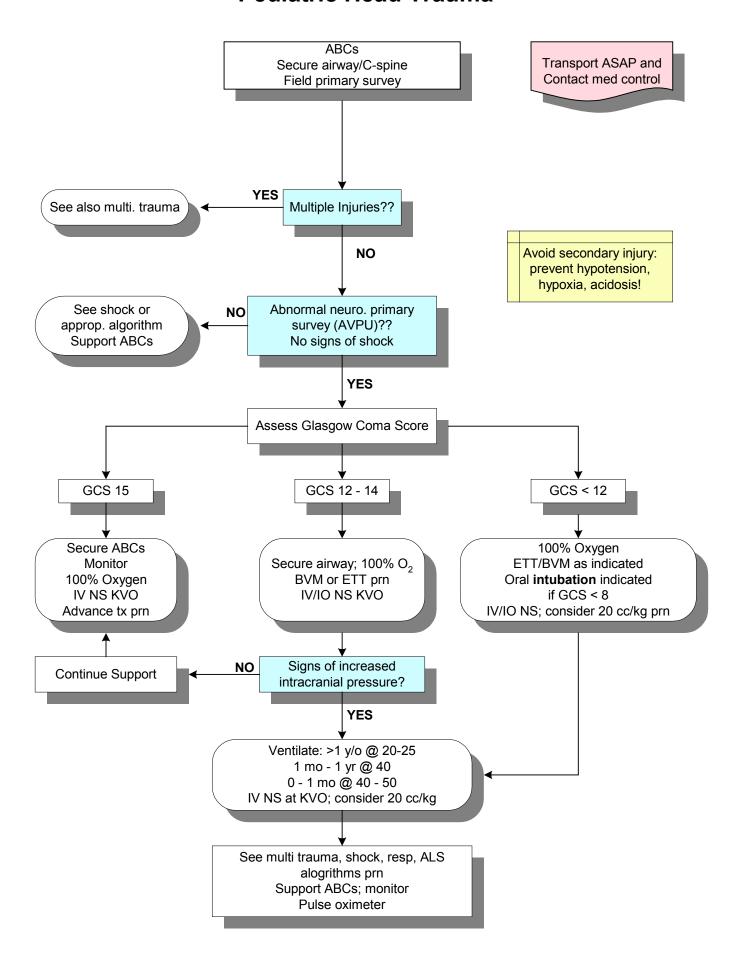
Pediatric Fever



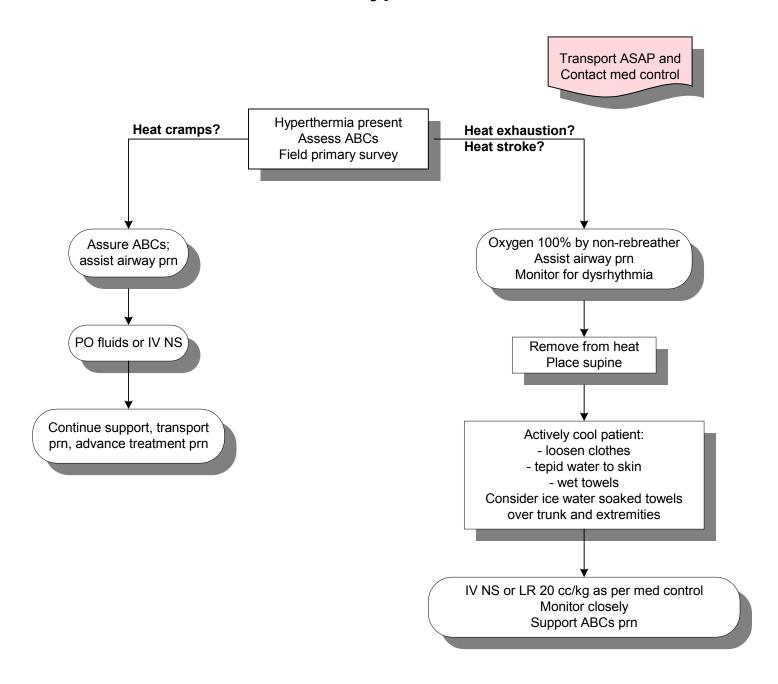
Fever in an otherwise healthy child is not dangerous or harmful, just uncomfortable (even at 105 - 106).

Parents will need reassurance in most cases.

Pediatric Head Trauma

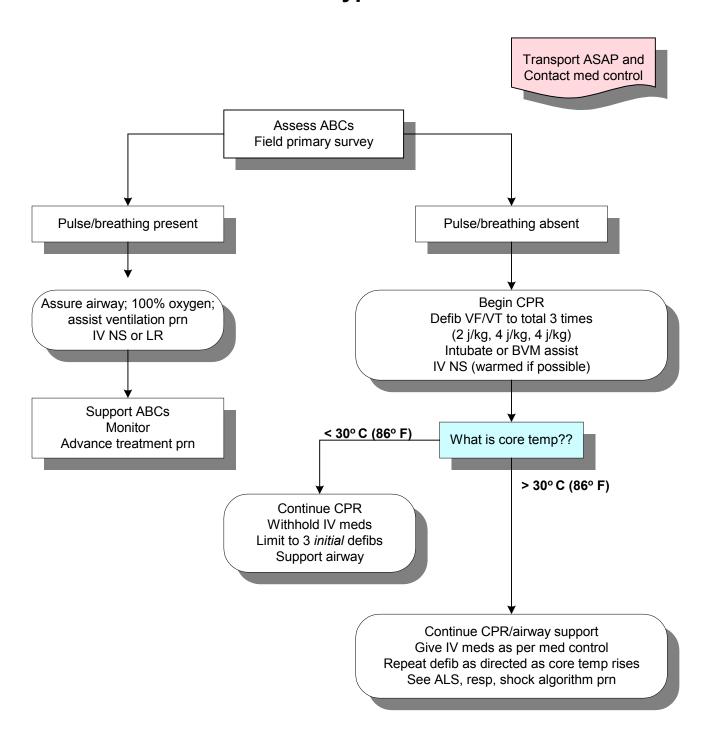


Pediatric Hyperthermia*



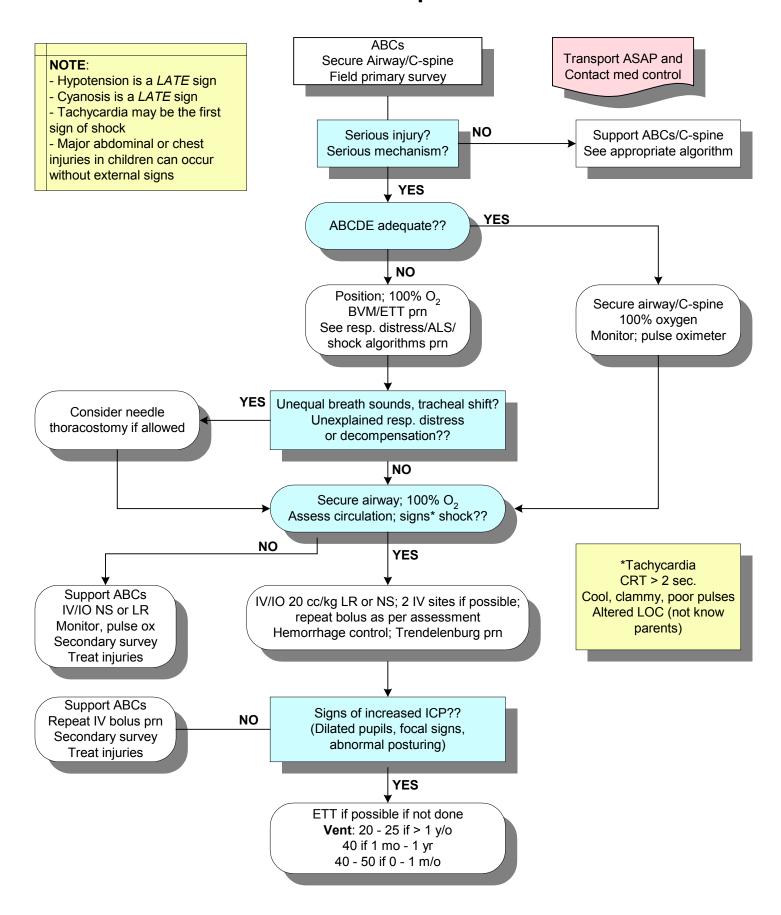
*Hyperthermia does not refer to physiologic temperature elevation in normal children with acute minor illness, nor to those who have febrile seizures.

Pediatric Hypothermia

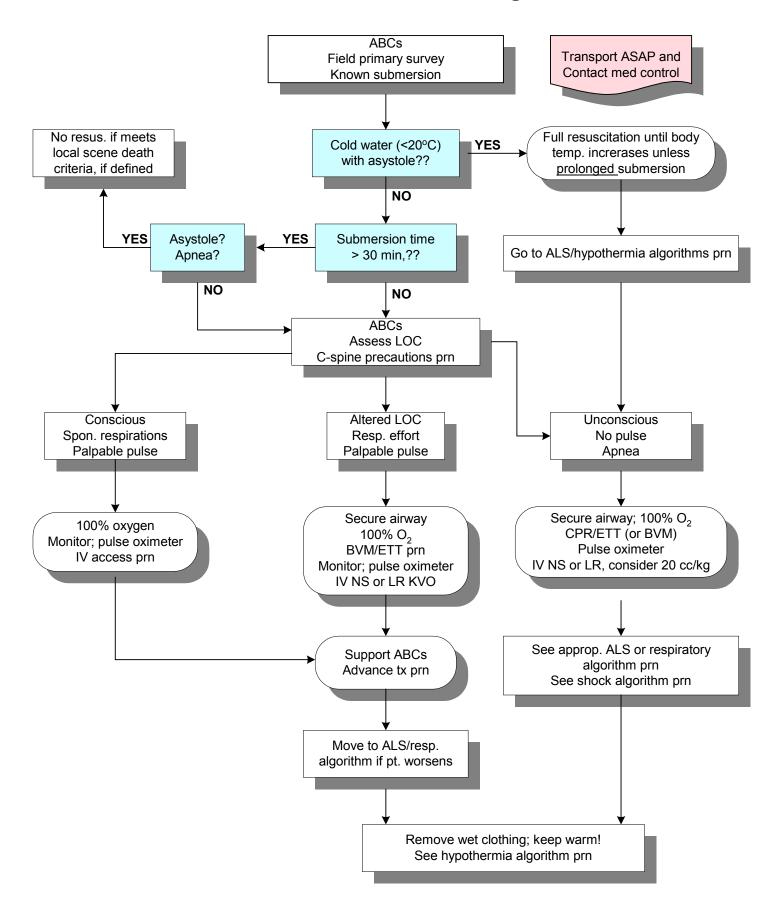


Note: Resuscitation efforts should continue until core temperature approaches normal

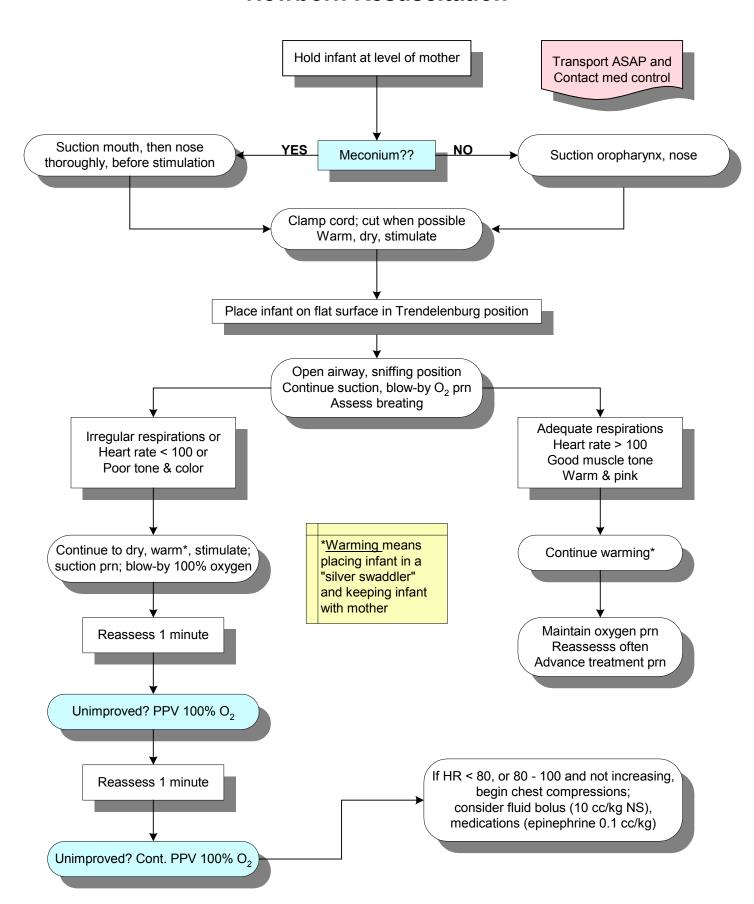
Pediatric Multiple Trauma



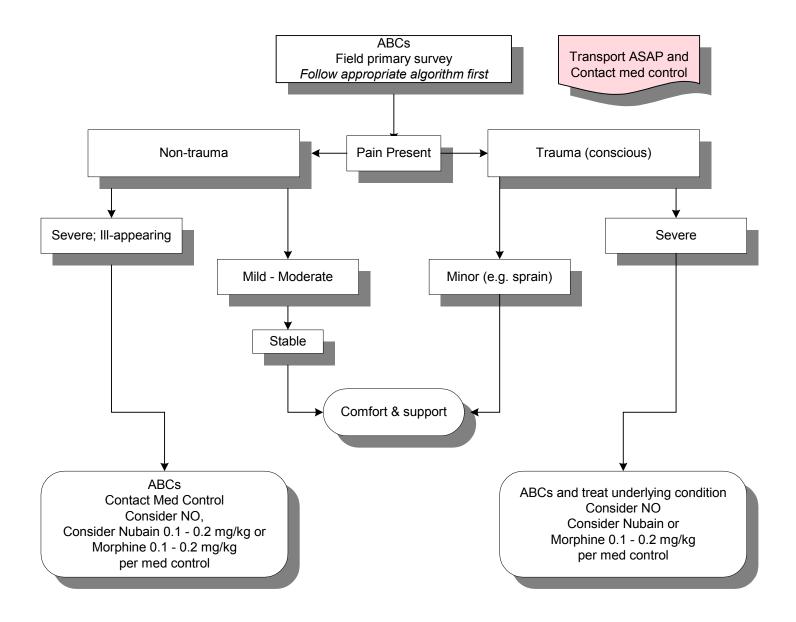
Pediatric Near-Drowning



Newborn Resuscitation

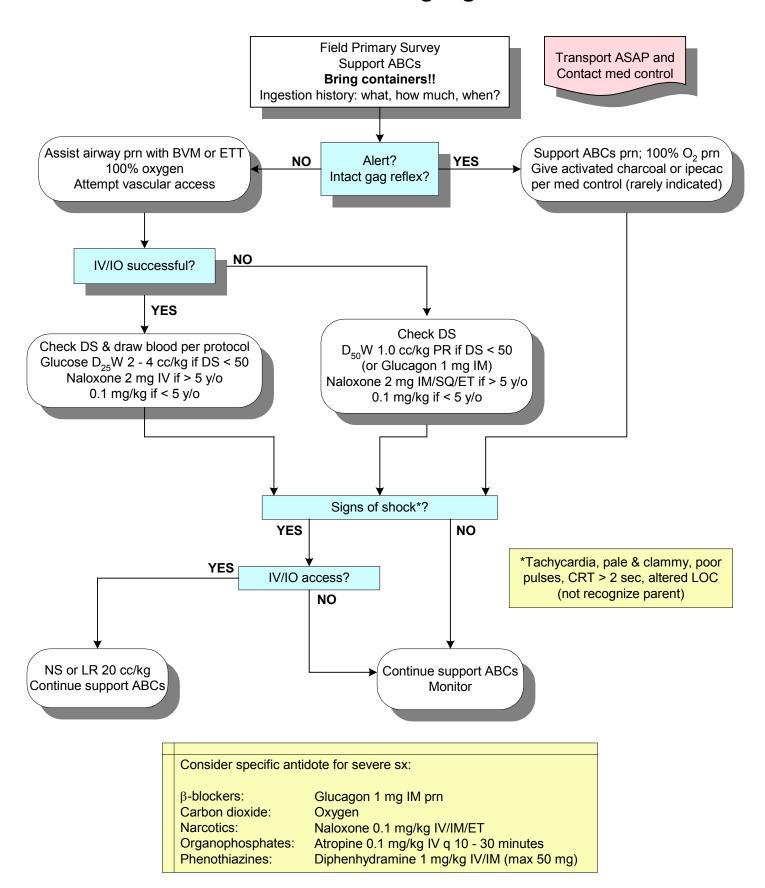


Pediatric Pain

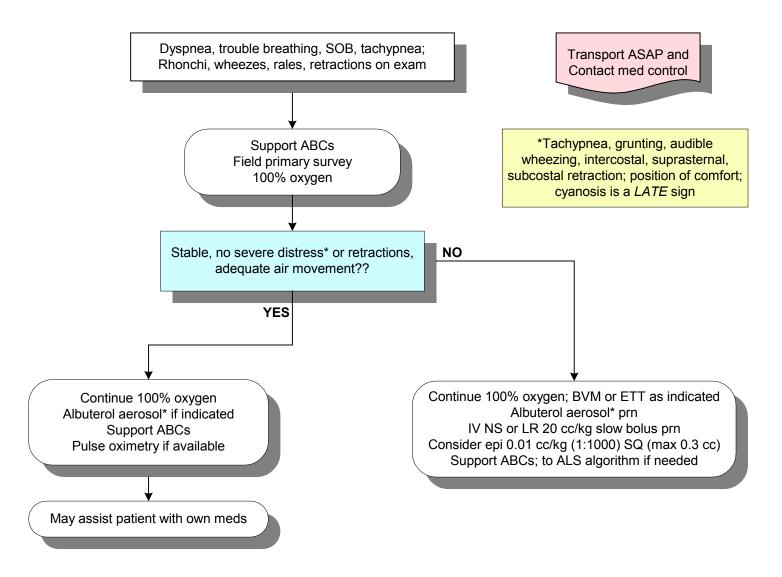


Pain control not recommended except per med control for unstable patients

Pediatric Poisoning/Ingestion



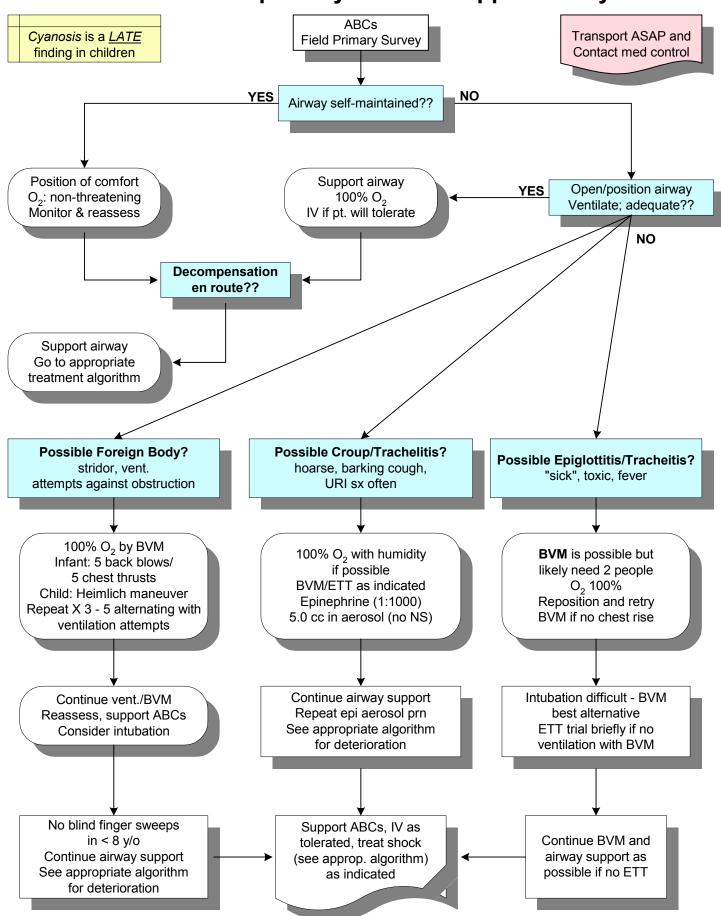
Pediatric Respiratory Distress: Lower Airway



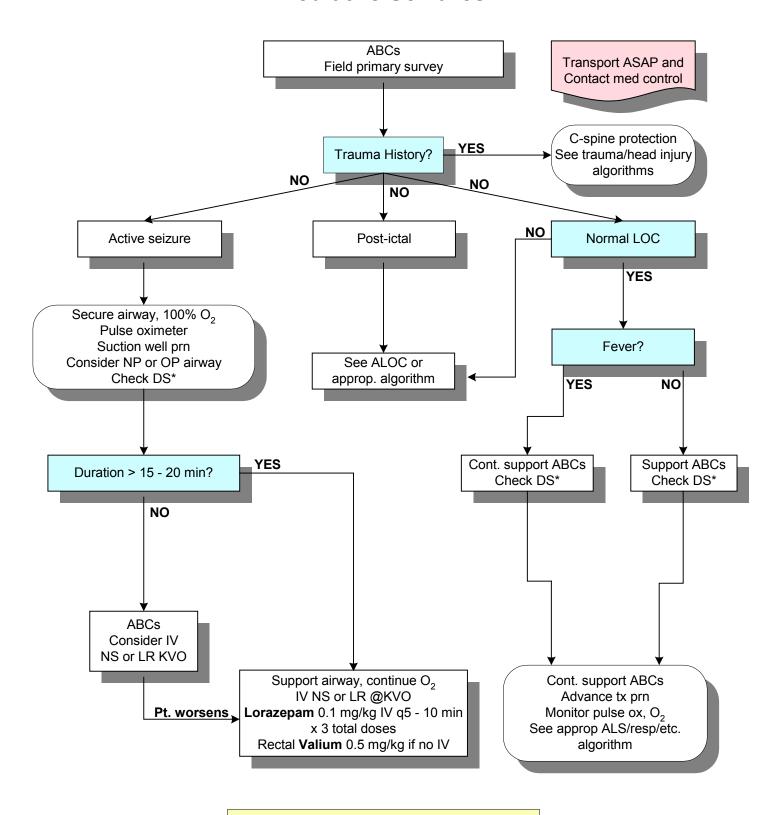
*Albuterol aerosol dose: 2.5 mg (0.5 cc) or 5.0 mg (1.0 cc) in 2 - 3 cc NS; for severe attack, use every 15 minutes as per med control

Note: a silent chest with obvious distress indicators inadequate air movement to wheeze!! Consider other causes of wheezing besides asthma & treat as needed: RAD, bronchiolitis, foreign body, CHF

Pediatric Respiratory Distress: Upper Airway

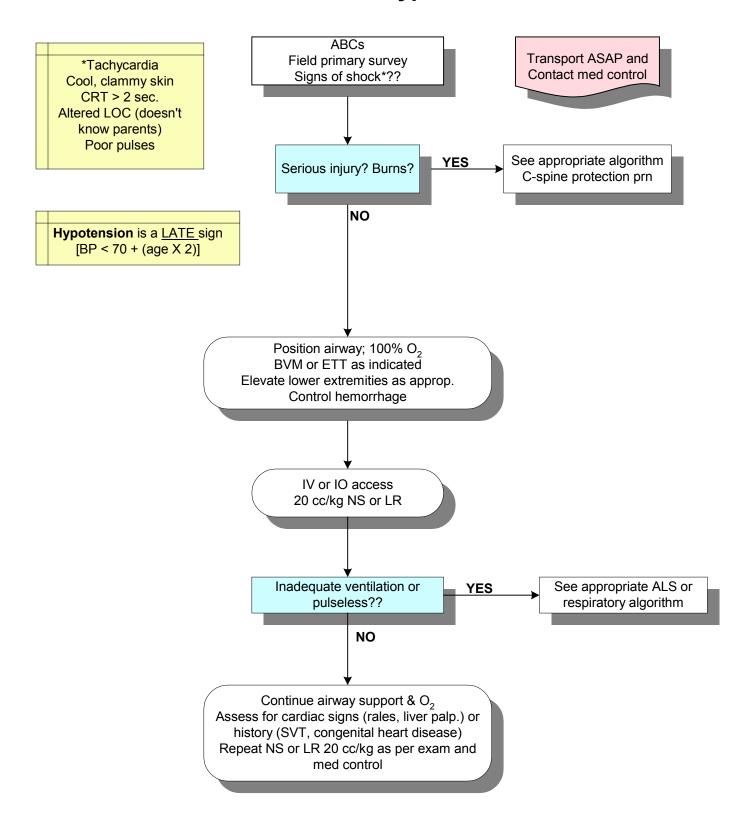


Pediatric Seizures

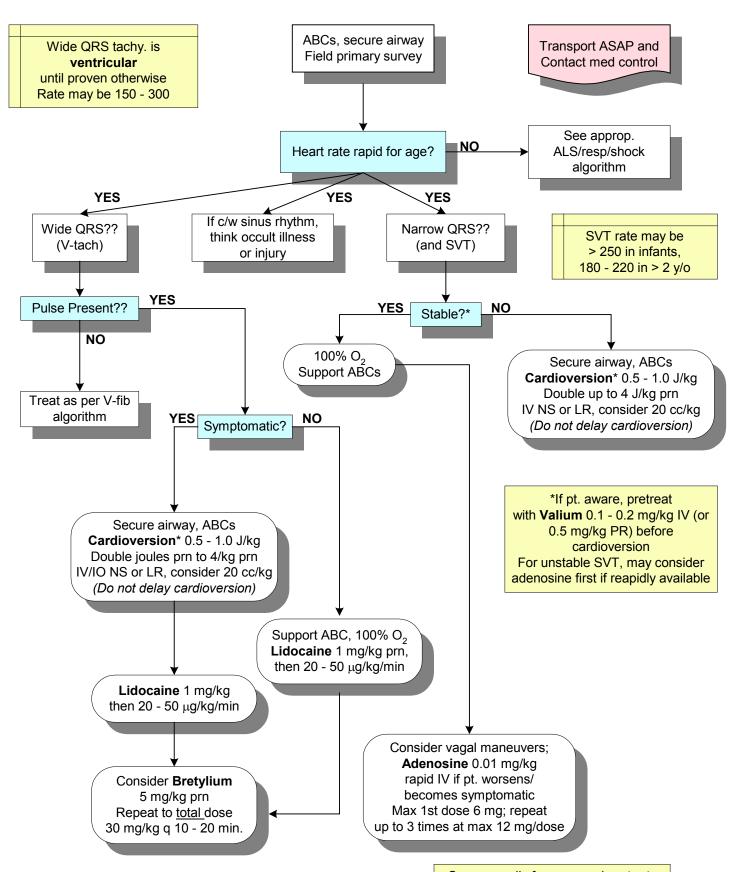


*If DS < 50, give $D_{25}W$ 2 - 4 cc/kg IV or $D_{50}W$ 1 cc/kg PR or Glucagon 1 mg IM

Pediatric Shock/Hypotension



Pediatric Tachycardia



- See appendix for average heart rates

Appendix

Pediatric Information for Prehospital Care

Vital Signs				
Age	Mean HR	Mean RR	Mean BP	
Preemie	125 ± 50	30 – 60	35 – 56 syst.	
Newborn	140 ± 50	30 – 60	75/50	
1 – 6 mos.	130 ± 45	30 – 40	80/46	
6 – 12 mos.	115 ± 40	24 - 30	96/65	
12 – 24 mos.	110 ± 40	20 – 30	99/65	
2 – 6 yrs.	105 ± 35	20 – 25	100/60	
6 – 12 yrs.	95 ± 30	16 - 20	110/60	
> 12 yrs.	82 ± 25	12 - 16	120/60	

	Average Body Weights							
Birth	6	12	24	36	5	10	12	14
	mos.	mos.	mos.	mos.	yrs.	yrs.	yrs.	yrs.
3.5	7	10	12	15	20	30	40	50
kg	kg	kg	kg	kg	kg	kg	kg	kg

99 th Percentile Blood Pressure			
Age	Systolic	Diastolic	
<7 days	106		
7 – 30 days	110		
1 mo – yrs	118	82	
3 – 5 yrs	124	84	
6 - 9 yrs	130	86	
10 – 12 yrs	134	90	

Glasgow Coma Scale				
Response	Adults & Children	Infants	Points	
Eye	No response	No response	1	
Opening	To pain	To pain	2	
	To voice	To voice	3	
	Spontaneous	Spontaneous	4	
Verbal	No response	No response	1	
	Incomprehensible	Moans to pain	2	
	Inappropriate words	Cries to pain	3	
	Disoriented	Irritable	4	
	Spontaneous	Coos, babbles	5	
Motor	No response	No response	1	
	Decerebrate posturing	Decerebrate posturing	2	
	Decorticate posturing	Decorticate posturing	3	
	Withdraws to pain	Withdraws to pain	4	
	Localizes pain	Withdraws to touch	5	
	Obeys commands	Normal spontan. movement	6	
Total Score			3 - 15	

Tidbits for child care

1.	ETT size:	(16 + age) ÷ 4
2.	WT:	[2 X (age in yrs)] ÷ 8
_		

3 X tube diameter (from tip to teeth)
70 ÷ (2 X age in yrs)
80 cc/kg 3.

4.

5.

ETT distance:
BP (5th %-ile):
Blood volume:
Shock/hypotension: Shock is frequently present in children without the presence of hypotension. 6.

GLOSSARY of ACRONYMS

ABCDE Airway, Breathing, Circulation, Disability, Expose

ABC Airway, Breathing, Circulation

ACLS Advanced Cardiac Life Support

ALOC Altered Level of Consciousness

ALS Advanced Life Support

amp **ampule**; amperage; ampere

ASA aspirin (acetylsalicylic acid)

ASAP As Soon As Possible

AV **atrioventricular**; arteriovenous

AVPU Alert Verbal Painful Unconscious

BG blood gases; blood glucose

BLS basic life support

BP blood pressure

BVM bag valve mask

cc/kg cubic centimeter per kilogram (this is equivalent to mL/Kg)

CHF congestive heart failure

Code 3 ambulance running lights and sirens - EMERGENCY

COPD chronic obstructive pulmonary disease

CPR Cardiopulmonary Resuscitation

CRT capillary refill time

CVA cerebrovascular accident

DHEC S. C. Department of Health and Environmental Control

DS dextro stick

Dx Diagnosis

ECG Electrocardiogram

EKG Electrocardiogram

epi Epinephrine

ET Endotracheal

ETA Estimated Time of Arrival

ETT Endotracheal Tube

GCS Glasgow Coma Scale

GI Gastrointestinal

GU Genitourinary

Hg mercury

HR heart rate

Hx History

ICP Intra Cranial Pressure

IM Intramuscular

IO Intraosseous

IV NS intravenous normal saline

IV Intravenous

IV NS KVO intravenous normal saline, keep vein open

J (Joule) mechanical equivalent of heat

J/kg joules/kilogram

joules mechanical equivalent of heat (j)

JVD jugular venous distention

KVO keep vein open

Lido. Lidocaine

L/min liter per minute

LOC loss of consciousness, level of consciousness

LR lactated ringers

MAST military antishock trouser (Also referred to as "PASG", pneumatic

antishock garment).

mcg microgram

mEq milliequivalent

mg/dl milligram per deciliter

mg/kg milligram per kilogram

MI myocardial infarction; mitral insufficiency

mm Hg millimeters of mercury (a measurement of pressure)

NP nasopharyngeal

NPO nullo per os (nothing by mouth)

NRB non-rebreather (mask)

NS normal saline

OD overdose of narcotics

OP orapharyngeal airway

PEA/EMD pulseless electrical activity/electrical mechanical disassociation

PEA pulseless electrical activity

PO per os (by mouth); used in writing prescriptions

PPV positive pressure ventilation

PR pulse rate; per rectum (by rectum)

PRN as needed

Pt patient

PVC premature ventricular contraction

q **Each or every**; used in writing prescriptions, often with a number

indicating the hours between doses - e.g. 1 pill Q 8 hours PO

QRS QRS complex-series of deflections in an electrocardiogram that

represent electrical activity generated by ventricular depolarization

prior to contraction of the ventricles

Rx Treatment or medication

SBP systolic blood pressure

SC subcutaneous

SIDS Sudden Infant Death Syndrome

SL q sublingual every _____

SOB short of breath

SQ subcutaneous

SVT supraventricular tachycardia

TPA tissue plasminogen activator

tx **treatment**; traction

VS vital signs

V. Tach. Ventricular tachycardia

V. Fib. Ventricular fibrillation

VF/VT ventricular fibrillation/ventricular tachycardia